



Massachusetts
Department
of
ENVIRONMENTAL
PROTECTION

fact sheet

2004 Toxics Use Reduction Information Release

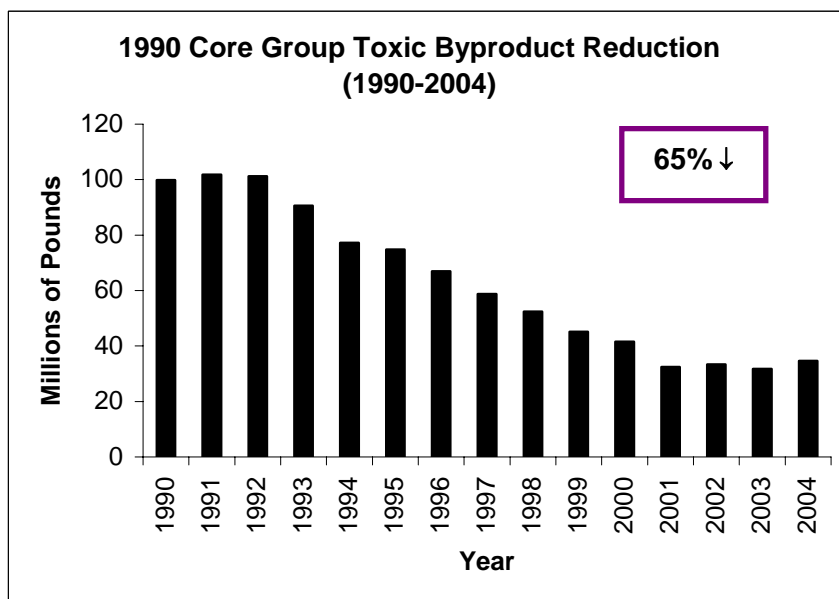
Each year, the Massachusetts Department of Environmental Protection (MassDEP) issues an annual report on the use of toxic chemicals in Massachusetts reported under the Toxics Use Reduction Act (TURA). TURA progress is measured by using reported data (excluding trade secret data) normalized for changes in production and using a consistent set of chemicals and industries subject to reporting over a given period of time (referred to as a "Core Group").

In 2004, the total amount of toxic chemicals reported used (excluding trade secret data) was 926 million pounds. In 2004, the **2000 Core Group** (industry categories and chemicals subject to reporting in 2000 and 2004) used 842 million pounds, or 91% of the toxic chemicals reported used. Adjusting the data to account for an 11% decrease in production from 2000 to 2004, over that four-year period, the 2000 Core Group facilities reduced:

- toxic chemical use by 9%,
- toxic byproducts by 9%,
- toxics shipped in product by 14%,
- on-site releases of toxics to the environment by 23%, and
- transfers of toxics off-site for further waste management by 20%.

In 2004, the **1990 Core Group** (industry categories and chemicals subject to reporting in 1990 and 2004) used 520 million pounds, or 56% of the toxic chemicals reported used. Adjusting the data to account for a 17% increase in production from 1990 to 2004, over that 14-year period the 1990 Core Group facilities reduced:

- toxic chemical use by 41%,
- toxic byproducts by 65%,
- toxics shipped in product by 58%,
- on-site releases of toxics to the environment by 91%, and
- transfers of toxics off-site for further waste management by 56%.



In 2004, a total of 632 facilities reported under TURA. They used 181 listed toxic substances at or above reporting thresholds. Including trade secret data, these facilities reported:

- 1.1 billion pounds of toxic substances used (down from 1.2 billion pounds in 2003),
- 111 million pounds of toxic byproduct (or waste) generated (up from 107 million pounds in 2003),
- 371 million pounds of toxics shipped in or as products (up from 359 million pounds in 2003),
- 9 million pounds of toxics released to the environment (the same as 9 million pounds in 2003), and
- 35 million pounds of toxics transferred off-site for further waste management (the same as 35 million pounds in 2003).

TURA defines three types of toxics use: manufacturing (i.e., producing a toxic), processing (i.e., incorporating a toxic into a product), and "otherwise use" (i.e., all other uses). The reported data show that little chemical manufacturing occurred in Massachusetts (only 10% of total use). Most of the reported chemicals used (about 71%) were processed or incorporated into a product (such as plastics, paints, automotive parts, etc.). About 19% of chemical use was "otherwise use" attributed to uses ancillary to production processes, such as parts cleaning and waste treatment.

TURA requires reporting facilities to develop toxics use reduction plans that identify and evaluate opportunities to reduce the use of toxics and the generation of toxic byproducts. These plans must be updated every two years and approved by a state-certified toxics use reduction planner.

In addition to MassDEP's administration of reporting and planning requirements, the TURA program is supported by the [Office of Technical Assistance](#) (OTA) and the [Toxics Use Reduction Institute](#) (TURI). OTA provides non-regulatory technical assistance to facilities seeking to reduce the use of toxics, develops fact sheets and other technical guidance documents, supports the development of technology solutions by leveraging state and federal funding, and creates market-based incentives for qualifying TURA filers. TURI provides toxics use reduction education, training, and library services; supports research on cleaner materials and processes; and operates a laboratory for testing non-toxic or less-toxic cleaning alternatives.

The 2004 Toxics Use Reduction Information Release contains important chemical information from larger regulated industrial sources that is useful to the public, government, and industry. However, it is important to note that this information does not present the whole picture of chemical use in society, including emissions from cars and trucks, pesticides and fertilizers, and consumer use of products containing toxic chemicals.

MassDEP's 2004 Toxics Use Reduction Information Release is available on the [MassDEP web page](#). TURI also makes TURA data available on its website in a user-friendly way that is searchable by community, chemical, or company. See www.turi.org/turadata. For further information, please visit the web sites listed here, or call the MassDEP TURA program at 617-292-5711.

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